Topics areas

* Deep understanding of blockchain systems and the associated threat models.
* Skills in systems security/protocol design/distributed systems.
* Track record solving complex problems in creative ways.
* Knowledge of stablecoin projects and cryptocurrency stabilisation protocol research.
* An understanding of key defi primitives (collateralised lending, automated market makers, perpetual swaps).
* Knowledge of PoS systems (especially BFT/Tendermint based dPoS systems)
* Development experience in a trading-related project.
* An understanding of key concepts in quantitative finance, namely pricing and hedging models for derivatives and fixed income products.
* Experience working with financial timeseries, market data and back-testing

Relate to experience:

* Solidity projects
  + AAVE lending bot to auto pay loans
  + AAVE liquidity pools fork POC
  + Uniswap v1 fork DEX poc
  + NFT project
  + ERC20 tokens
  + Familiar with diamond standard and upgradable SCs
* Thesis
  + Complex research project
  + Probabilistic modelling from data of spatial point process and EM field
  + MATLAB implementation of molecular dynamics simulation with statistical analysis
  + Image processing and statistical analysis of image features PCF, power spectrum
  + Implementation of perlin noise for spatial point process
* Self learning
  + Implementing trading systems in python
  + Analysing time series data and detecting signals
  + Applying non linear models with simple strategies and binance/deribit api/alpaca

Answers and brainstorming for topics: